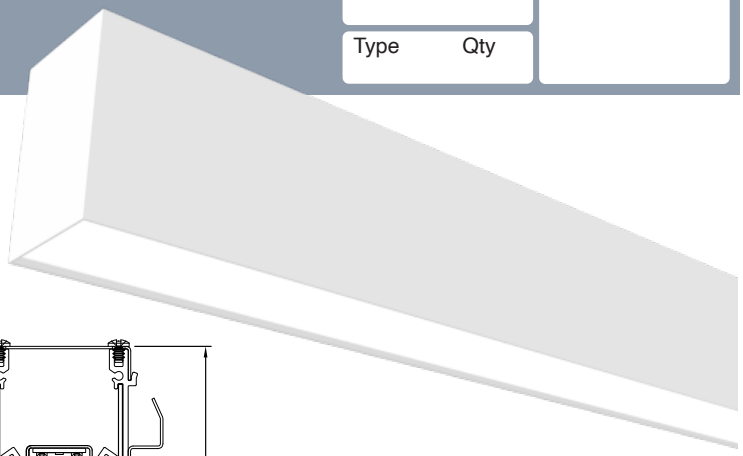
DAY-O-LITE

Profile Series | PRFL-24-D-G

Date	Notes
Project	
Type Qty	



Features

Durable extruded aluminum and steel housing.

LED optimized optics for smooth, efficient illumination.

Individual fixtures, continuous rows or custom patterns.

Programmable driver for custom lumen packages.

0-10V dimming to 1% standard. Dim-to-off available.

DMX, Lutron and DALI protocols also available.

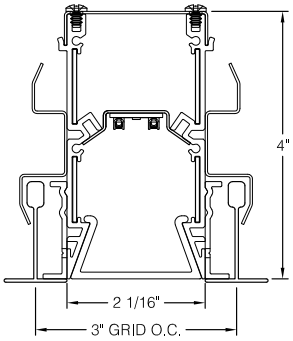
Sensor Ready for wireless Smart Lighting Solutions.

80/90CRI, Tunable White, RGBW & RGBWW.

Advanced Color (RGBW) w/pixel control to 5".

Bios SkyBlue™ circadian solutions available.

Declare Red List Approved.



Flush Lens

Ordering Guide

RS Declare. BAA

MODEL	OPTICS	LED[1]	LUMENS[2]	LENGTH	MOUNTING[3]	FINISH	OPTIONS
PRFL-24-D	**FL**						
PRFL-24-D Direct	**FL** = Flush Opal Acrylic (snap-in)	**STATIC WHITE** 27 = 2700K **30** = 3000K **35** = 3500K **40** = 4000K 50 = 5000K **BIOS SkyBlue** Spectrally optimized circadian solutions. **TUNABLE WHITE** (2700K-6500K) 2DIM10 = for 0-10V 2DMX = for DMX 2ESN = for Philips 2CAS = for Casambi 2LUT = for Lutron **DIM-TO-WARM** (2700K-6500K) DTW = Dim-to-Warm **RGB + WHITE** RGB = RGB RGBW = RGBW RGBWW = RGBWW **ADVANCED COLOR** 125mm incremental pixel color control for chase and animated effects.	**LO** = 407/ft (5W/ft, 81LPW) **SO** = 542/ft (7W/ft, 81LPW) **HO** = 678/ft (8W/ft, 981LPW) **CUSTOM LUMENS** Specify < HO.	**2** = 2 ft 3 = 3 ft **4** = 4 ft 5 = 5 ft **6** = 6 ft 7 = 7 ft **8** = 8 ft For other enter row length (e.g. 48 = 48 ft)	**G** = Grid 15/16" T-Bar **MG** = Mini Grid 9/16" T-Bar **SG** = Slot Grid SGF = Slot Grid Flush XG = Interlude XGF = Interlude Flush TGF = Tegular Flush 15/16" T-Bar XGF = Tegular Flush 9/16" T-Bar	**W** = White CC = Custom Color AMW = Anti Microbial White CC = Custom Color	**DIMMING DRIVERS** **DIM10** = 0-10V (1%) Standard DTO = 0-10V (Dim-to-Off) DIMST = 0-10V Step Dimming DIMSR = DALI Sensor Ready (5.0%) DALI = DALI (5.0%) DMX = DMX **LUTRON™ DIMMING DRIVERS** **LDE1** = Hi-Lume 1% EcoSystem LD2 = Digital 1% (DALI-2) L3DA3W = Hi-Lume 1% 3-Wire **SENSORS & CONTROLS**[4] AVO = Avi-On Sensor AWNS = Lutron Athena Sensor ESN = EasySense Sensor CAS = Casambi Wireless Control **EMERGENCY**[5] EMC = Emergency Circuit GTD = Generator Transfer Device EPC4 = 4W Emergency Battery **EPC6** = 6.5W Emergency Battery EPC10 = 10W Emergency Battery EPC12 = 12W Emergency Battery **WIRING** FWH = Flexible Wiring Harness DWH = DMX Wiring Harness

[1]All LED, BIOS, Tunable White, DTW, and RGB/W options and Ordering Codes page 2.

[2]Lumens at 80CRI, 3500K, FL lens. Photometry page 5 .

[3]See page 5 for mounting option details.

[4]All Sensor & Control options page 2.

[5]EPC6 is standard unless otherwise specified. EPC not for DMX drivers.

BAA letter of compliance available at www.dayolite.com. Please consult factory for **BABAA** requests.

RS 10 Day Rapid Ship options in **blue**. Details page 6.

LED, BIOS, Sensor & Control Ordering Codes

LED

Static White

30 = 3000K 80 CRI
35 = 3500K 80 CRI
40 = 4000K 80 CRI
50 = 5000K 80 CRI

927 = 2700K 90 CRI
930 = 3000K 90 CRI
935 = 3500K 90 CRI
940 = 4000K 90 CRI

Tunable White[1]
(2700K-6500K)

2DIM10 = 0-10V 80 CRI
2DMX = DMX 80 CRI
2CAS = Casambi Wireless 80 CRI
2ESN = Philips EasySense 80 CRI
2LUT = Lutron (LD2) 80 CRI

92DIM10 = 0-10V 90 CRI
92DMX = DMX 90 CRI
92CAS = Casambi Wireless 90 CRI
92ESN = Philips EasySense 90 CRI
92LUT = Lutron (LD2) 90 CRI

Dim-to-Warm[2]

DTW = 6500K-2700K 80 CRI
9DTW = 6500K-2700K 90 CRI

RGB/W[3]

RGB = RGB only
RGB27 = RGB w/2700K
RGB30 = RGB w/3000K
RGB35 = RGB W/3500K
RGB40 = RGB w/4000K
RGB50 = RGB w/5000K
RGBWW = RGB w/2700K-6500K

Single Color[4]

RED = Red
BLU = Blue
GRN = Green
AMB = Amber

Advanced Color[5]

Advanced Color options combine RGB or RGBW with multi-pixel control for advanced chases, animated visual effects and other programmable scenes with 125mm pixel granularity.

ACRGB = RGB only
AC27 = RGB w/2700K
AC30 = RGB w/3000K
AC40 = RGB w/4000K

BIOS SkyBlue

bios ILLUMINATED

BIOS SkyBlue biological technology brings the benefits of blue skies inside. BIOS SkyBlue is the only spectrally optimized circadian solution to target the region that drives wellness benefits including: increased alertness, enhanced productivity, better mood, and better sleep. More information may be found at www.bioslighting.com or by contacting Day-O-Lite directly. All options for 0-10V control.

BIOS Biological Static
For daytime applications. BIOS Static Biological LED features key BIOS SkyBlue (490nm) for maximum daytime circadian impact.

B30 = 3000K
B35 = 3500K
B40 = 4000K

BIOS Biological Dynamic White
Designed to transition from daytime to evening in a dim-to-warm protocol. The daytime CCT includes full BIOS SkyBlue (490nm) for maximum daytime circadian impact, while the evening spectrum removes BIOS SkyBlue for minimal circadian stimulus after hours.

B30D = 3000K-2700K
B35D = 3500K-3000K
B40D = 4000K-3500K

BIOS Biological Tunable White
Designed to transition from daytime to evening in a tunable white protocol. The daytime CCT includes full BIOS SkyBlue (490nm) for maximum daytime circadian impact, while the evening spectrum removes BIOS SkyBlue for minimal circadian stimulus after hours.

B30T = 3000K-2700K
B35T = 3500K-2700K
B40T = 4000K-2700K

Sensors & Controls

Sensors*

AVO = Avi-On Occ/Day
AVM = Avi-On Occ (Microwave)
BNV = BubblyNet Occ/Day
ENC = Encelium Occ/Day
ENL = EnLighted Occ/Day/Temp
LEG = Legrand Occ/Day
ANW = Lutron Athena Occ/Day
VIVE = Lutron Vive Occ/Day
NLT = Acuity nLight Occ/Day
NXC = Current NX Occ/Day
ESN = Philips EasySense Occ/Day
WVL = Cooper WaveLinx Occ/Day

Wireless Control*

CAS = Casambi

*Sensors and control options to be commissioned wirelessly in the field by qualified controls personnel with applicable app (by others).

[1]Tunable white may be controlled by a number of dimming protocols as shown.

[2]Dim-to-Warm mimics incandescent dimming by warming the CCT from 6500K to 2700K as light levels are dimmed.

[3]All RGB, RGBW and RGBWW options for DMX control (by others). 80 CRI standard.

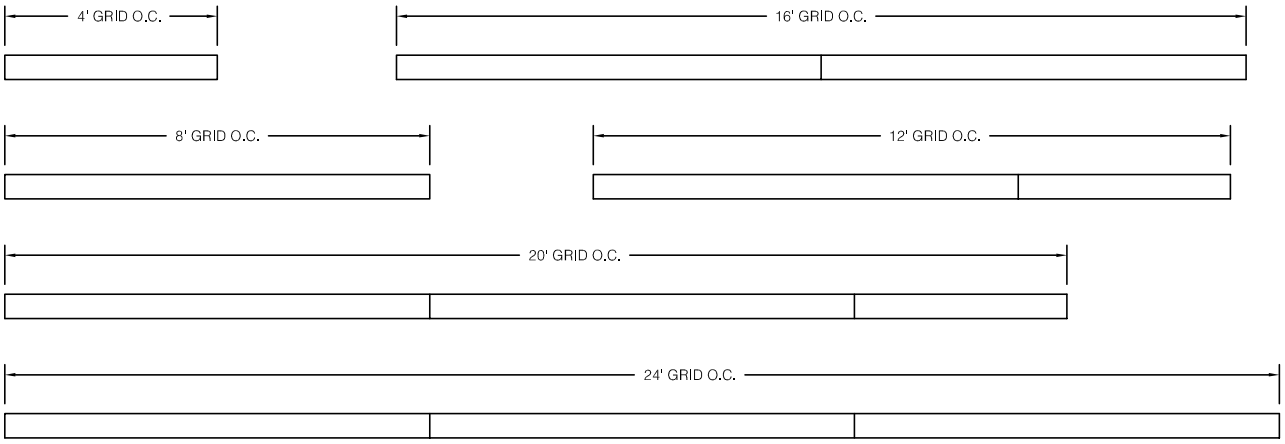
[4]Single colors are constant voltage LEDs. Dimming requires ELV controller (by others).

[5]White limited to 100L/ft.

Individual Fixtures & Continuous Rows

NOMINAL LENGTH	GRID O.C.
2'	2'
4'	4'
8'	8'
12'	12'
16'	16'
20'	20'
24'	24'

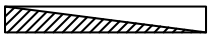
Individual fixtures and rows are continuously illuminated and joined with included aligner brackets and hardware. Power feed locations and mounting locations are shown below. Continuous rows longer than 8' and patterns, including EPC/EMC and sensor locations must be approved prior to manufacturing.



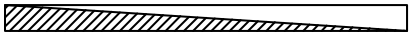
Emergency & Sensor Locations

EPC will control entire length of individual fixtures. Individual fixtures of differing lengths will deliver the same lumens under EPC power (a 4' fixture will deliver the same total lumens over half the length of an 8' fixture). **EMC** controlled individual fixtures will deliver lumens per foot as originally specified, unless dimmed at time of power loss. Consult factory for EMC dimming override device.

4' Individual

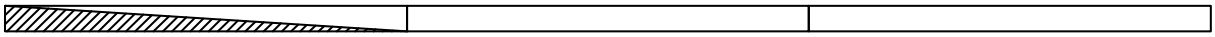


8' Individual



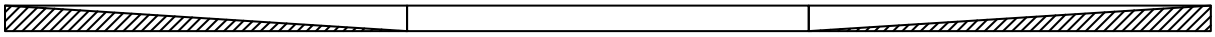
For individual fixtures to 8' **EPC/EMC** will power entire fixture.

24' Row (3x8')



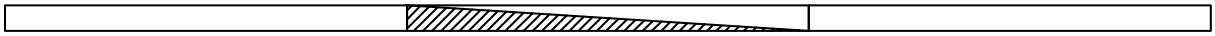
For continuous rows longer than 8' one **EPC/EMC** will be located in the feed section (end-left) of the row.

24' Row (3x8')



If two **EPC/EMC**'s are required their locations will be in the feed section (end-left) and last section (end-right).

24' Row (3x8')

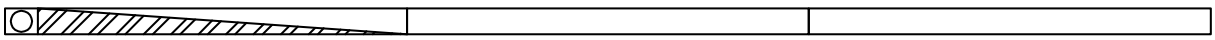


Custom placement of one or more **EPC/EMC**'s must be clearly identified during ordering.

8' Individual

SENSORS for individual fixtures will control entire length of fixture and will be located on feed end of fixture.

24' Row (3x8')



SENSORS for rows will control the feed section (end-left) of the row. Sensors can control more than an 8' section within a row. Consult factory for sensor/section options, or for multiple sensors in a continuous row.

Pattern Guide

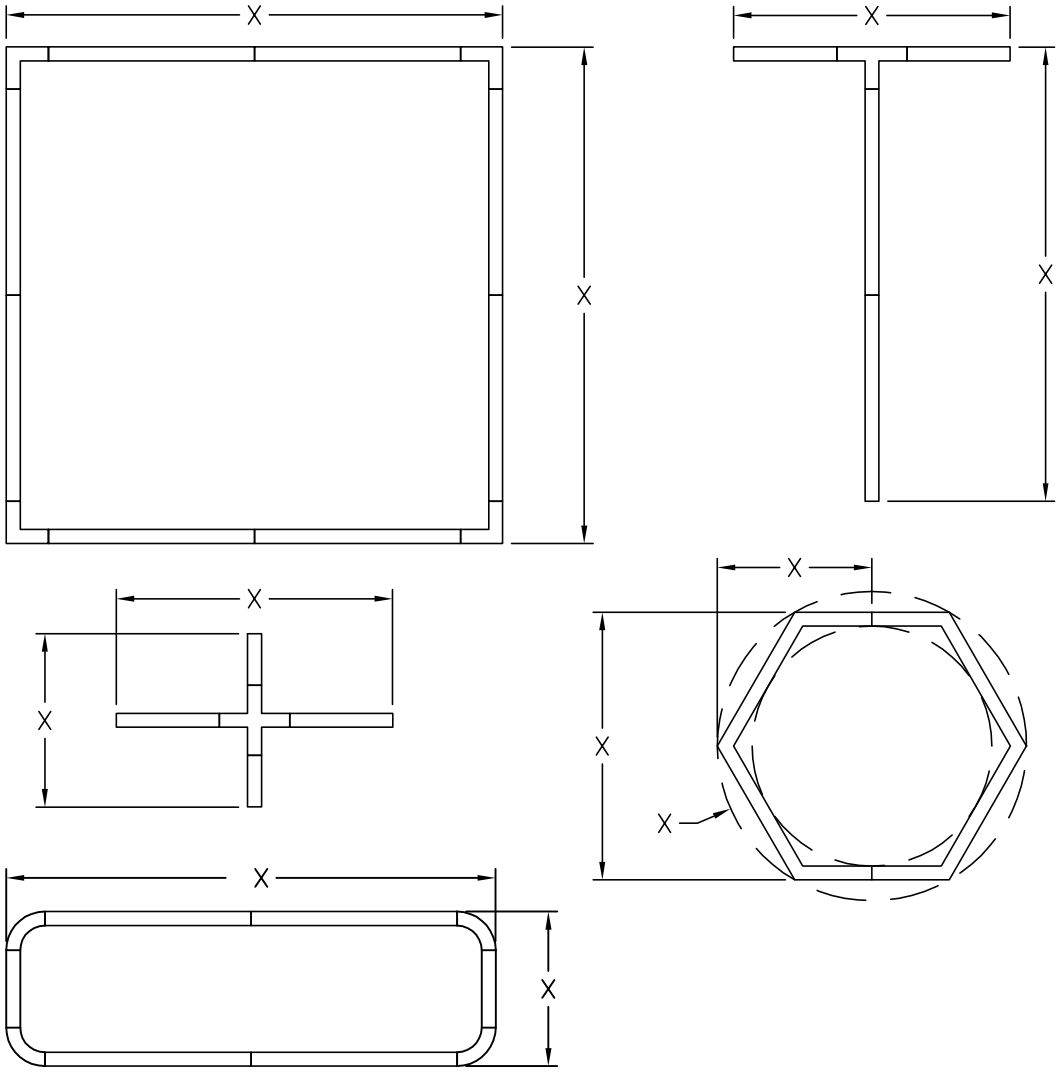
Profile may be specified in patterns of virtually any configuration. All patterns and corners are continuously illuminated and joined with included aligner brackets and joining hardware. See examples below for suggestions with actual and nominal dimensions. Day-O-Lite's custom manufacturing capabilities allow the specification of custom angled connectors to make non-sqaure patterns possible. (See ILX example below).

All corners and connectors are fully welded to ensure correct dimensions and "square" joinery when assembled.

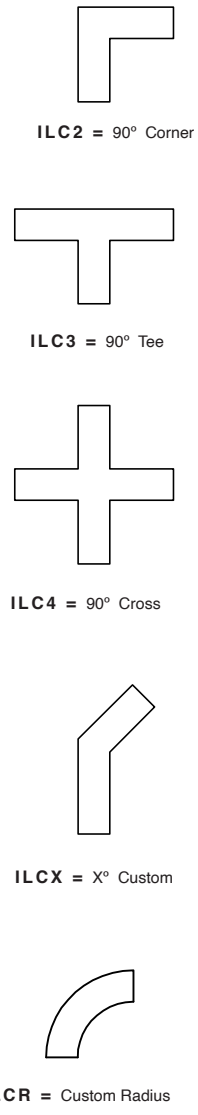
How to Specify

1. Submit your pattern to Day-O-Lite in dimensioned CAD file or submit a fully dimensioned PDF file.
2. If EPC/EMC or Sensors are to be included their location needs to be clearly noted.
3. Day-O-Lite will design your pattern to as close as is nominally possible given standard LED module lengths, including connectors.
4. Day-O-Lite will supply a detailed drawing for approval with final dimensions. All patterns must be approved prior to manufacture.

Pattern Examples



Illuminated Connectors



ILC2 = 90° Corner

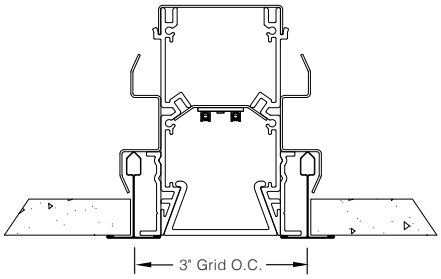
ILC3 = 90° Tee

ILC4 = 90° Cross

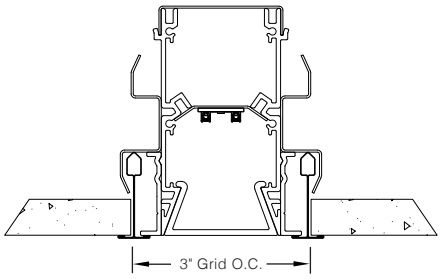
ILCX = X° Custom

ILCR = Custom Radius

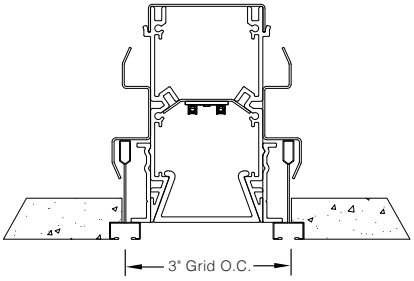
Recessed Mounting Options



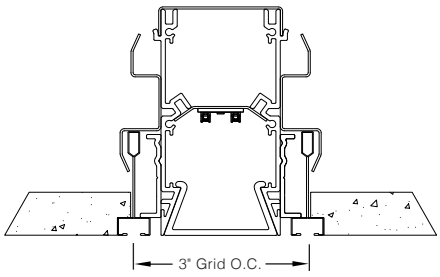
15/16" T-Bar
(G)



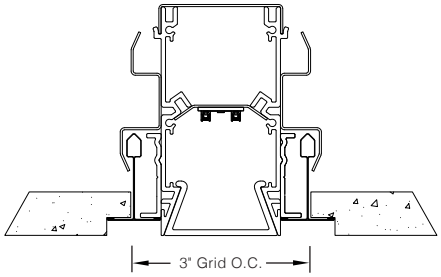
9/16" T-Bar
(MG)



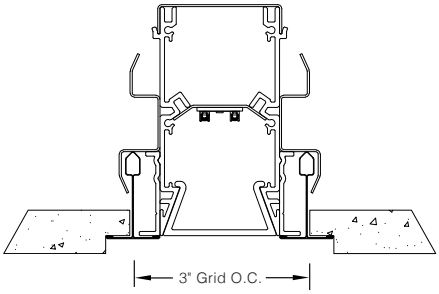
Slot Grid
(SG)



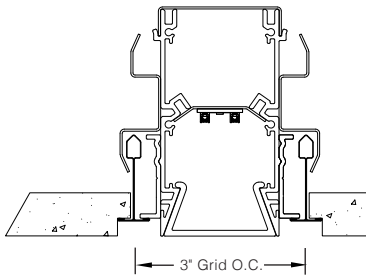
Slot Grid Flush
(SGF)



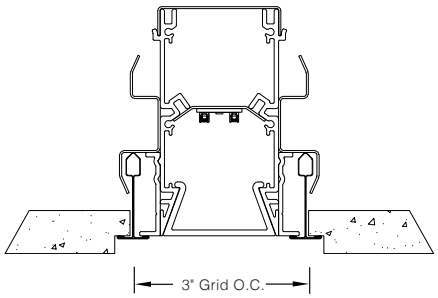
15/16" Tegular
Flush
(TGF)



15/16" Tegular
Regressed
(TGR)

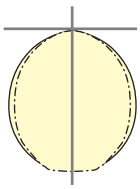


9/16" Tegular
Flush
(MTGF)



9/16" Tegular
Regressed
(MTGR)

Photometry



PRFL-24-D-FL-40-**LO**-4-G
Flush Lens

4000K CCT
WATTS: 20
LUMENS: 1626
LPW: 81

PRFL-24-D-FL-40-**SO**-4-G
Flush Lens

4000K CCT
WATTS: 27
LUMENS: 2169
LPW: 81

PRFL-24-D-FL-40-**HO**-4-G
Flush Lens

4000K CCT
WATTS: 33
LUMENS: 2711
LPW: 81

4000K @ 80CRI, 4', FL lens.
Use the following multipliers for other CCTs: 2700K x 0.96, 3000K x 0.98, 4000K x 1.02, 5000K x 1.03. IES files @ www.dayolite.com

Specifications

CONSTRUCTION: Extruded aluminum side housing. 20 gauge cold rolled steel top and internal components.

REFLECTOR: Highly reflective baked white enamel with pre-finished reflective LED tray.

OPTICS: Flush opal acrylic lens is standard.

LED: Static white LED modules in 30/35/40 & 50K CCT, 80/90CRI. Lumen maintenance minimum L_{70}= 50,000 hours. 3 SDCM color consistency. BIOS SkyBlue, RGB, RGBW, RGBWW, Advanced Color, Tunable White and Dim-to-Warm options available; field replaceable.

DRIVER: Standard driver is Class 2 AOC 0-10V to 1%, Dim-to-Off available. 120/277V input, PF > 90%, THD < 20 @ 120V. DMX, DALI & Lutron protocols available. All drivers prewired for connection to control system (by others); field replaceable.

MOUNTING: Standard mounting is in suspended grid ceilings.

FINISH: Housing and components finished in baked white enamel.

CERTIFICATION: cETLus listed conforming to UL STD. 1598 and certified to CSA STD C22.2 NO. 250.0. Suitable for dry & damp locations. Union Made in the United States of America. I.B.E.W., BAA compliant, Declare Red List Approved.

RS Rapid Ship Program

Rapid Ship products are estimated to ship 10 business days or less from the morning the order is received and confirmed. Linear rows will ship 10 business days or less from the day the layout drawings are approved. Orders confirmed and layouts approved after 12:00 p.m. Eastern Time are estimated to ship 10 days or less from the following business morning. Please refer to complete program Terms & Conditions at www.dayolite.com.

Rapid Ship options are limited to those highlighted in **blue** on the Ordering Guide. 400' max individual or continuous row allowed. Consult factory for additional information.